DETAILS OF POT BEARING PAD ASSEMBLY

Sheet State Proj No. No. мО

The bearing design shall conform to the provisions of the latest edition of

The contractor. In coordination with the bearing manufacturer, shall be responsible for sizing the sale plate and masomry plate and determining the size, number, and location of anchor roas based on the load and movement capacities, indicated in the Bearing Data

The contractor shall submit calculations sealed by a Professional Engineer. Ilcensed in the state of Missouri, indicating conformance with design load and material criteria in the contract documents.

* Maximum vertical dimension of the complete bearing. If the actual bearing dimension differer adjustments shall be made in the thickness of the sole plate-masonry plate and concrete pad as needed by the contractor of no additional cost to the owner. Contractor shall submit proposed method of adjustment to

*** Estimated horizontal dimension of the pot bearing device. If the actual dimension affers, adjust the size of the sole plate and masonry plate as needed by the contractor at no additional cost to the owner.

The dimension "H" in the Bearing Data Table represents the assumed total height of bearing mechanism between the sole plate and masonry plate used by the designer to establish the pedestal elevations.

The bearings shall be manufactured pot bearings, designed for the load and movement capacities indicated in the Bearing Data Table.

All expansion Bearings shall have maximum friction coefficient of 3%

Steel for pot bearings shall be AASHTO M270 Grade 50 and shall be galvanized. Steel for sole plate and masonry plates shall be AASHTO M270 Grade 50.

Ancher rods shall conform to ASTUFISS Grade 50ff. The gracher rods shall be the manufactured of the shall be the minimum of an example of entitlem attender of 12-strokes and shall be shall be

Anchor rods shall be installed using a hardened steel washer at each exposed location.

Washers shall conform to ASTM F463.

Certified mill test reports, conforming to the requirements of the specifications, for the metals of the pot bearing device, sole plate, masonry plate and anchor rods shall be submitted.

The masonry plate shall be prepared per the specifications and shop-coated with one coat of inorganic zinc primer (5 mils minimum).

The sole plate shall be prepared per the specifications and shop-coated with two coats of inorganic zinc primer (5 mils minimum).

The bearing device, sole plate and masonry plate shall be assembled in the shop and the bearing assembly shall be field welded to the bottom flange of the steel cap beam. The welds shall be designed for the load apporties indicated in the Bearing Data Table.

After Installation of the bearings, any uncoated or damaged surfaces of the masonry and sole plates shall be prepared in accordance with the specifications and field-coated with inorganic zinc primer (5 mills minimum).

After installation of the bearings and field-applied prime coats, the surfaces of the masonry and sole plates shall be field-coated with System C Intermediate and finish coat.

All bearings shall be marked prior to shipping. The marks shall include the bearing location on the bridge and a direction arrow that points up-station. All marks shall be permonent and be visible offer the bearing is installed.

The pot bearing device, sale plate, masonry plate, anchor rads, washers, anchor red wells and any other appurtenances included in the fabrication and installation of the pot bearing device shall be incidental to the pay item "Pot Bearings".

Whenever jacking of the Superstructure is needed to reset the bearings, the contractor shall submit a jacking sequence for approval.



Indicates parts designed by the manufacturer.

BRG

To

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Was T2

W2

Rods / Brg.

Sole Plate

Bearing H Anchor Rods

Weld Size

Detailed